



## SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	ZINC CARBONATE
<b>Other Means of Identification</b>	Inorganic zinc salt
<b>Product Family</b>	H <sub>2</sub> S Scavenger
<b>Recommended Use</b>	Drilling Fluid Additive.
<b>Supplier Identifier</b>	Prairie Mud Service, 738 6 <sup>th</sup> Street, Estevan, SK S4A 1A4 306-634-3411

**Emergency Phone No.** 1-888-CAN-UTEC (226-8832) or (613) 996-6666 or \* 66

## SECTION 2. HAZARD IDENTIFICATION

### Classification

Skin irritation - Category 3; Eye irritation - Category 2B

### Label Elements

Signal Word:

WARNING!

Hazard Statement(s):

Causes mild skin irritation.

Causes eye irritation.

Precautionary Statement(s):

Prevention:

Wash hands and skin thoroughly after handling.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If skin irritation occurs: Get medical advice or attention.

If eye irritation persists: Get medical advice or attention.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Contains no hazardous ingredients.

Chemical Name	CAS No.	%	Other Identifiers
Zinc carbonate, basic	3486-35-9	100	

## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### Inhalation

Move to fresh air. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor.

#### Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If irritation develops or persists, seek medical attention. Launder contaminated clothing before re-use.

**Eye Contact**

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If adverse symptoms persist, seek medical attention.

**Ingestion**

If conscious give 2 to 4 glasses of water to drink but DO NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing victim. Get prompt medical attention.

**First-aid Comments**

If exposed or concerned, get medical advice or attention.

**Immediate Medical Attention and Special Treatment****Special Instructions**

Advise of zinc carbonate exposure.

**SECTION 5. FIRE-FIGHTING MEASURES****Extinguishing Media****Suitable Extinguishing Media**

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

**Specific Hazards Arising from the Product**

Can ignite if strongly heated. May burn with surrounding fire.

Decomposes at melting point (300°C) to oxides of zinc and carbon.

**Special Protective Equipment and Precautions for Fire-fighters**

Use water spray from a safe distance to cool fire-exposed containers.

Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES****Personal Precautions, Protective Equipment, and Emergency Procedures**

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

**Environmental Precautions**

Do not allow into any sewer, on the ground or into any waterway.

**Methods and Materials for Containment and Cleaning Up**

Use appropriate safety equipment. Small spills, sweep up and put into approved DOT containers for disposal or re-use.

Large spills, do not allow to enter waterways, sweep or shovel into approved DOT containers for re-use or disposal.

**SECTION 7. HANDLING AND STORAGE****Precautions for Safe Handling**

Avoid ingestion. Avoid skin and eye contact. Practice reasonable caution and personal cleanliness.

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

**Conditions for Safe Storage**

Store in a cool, dry, well-ventilated place. Keep container tightly closed and away from incompatible materials.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Appropriate Engineering Controls**

Provide mechanical ventilation to prevent dust concentrations and to reduce potential exposure.

**Individual Protection Measures****Eye/Face Protection**

Wear chemical safety goggles.

**Skin Protection**

Wear chemical protective clothing e.g. gloves, aprons, boots.

**Respiratory Protection**

Not normally required if product is used as directed. If dust is generated and/or if ventilation is inadequate, use respirator that will protect against dust/mist.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance</b>	White powder. Particle Size: Not available
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not available
<b>Melting Point/Freezing Point</b>	300 °C (melting); Not applicable (freezing)
<b>Initial Boiling Point/Range</b>	Not applicable
<b>Flash Point</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Upper/Lower Flammability or Explosive Limit</b>	Not available (upper); Not available (lower)
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (air = 1)</b>	Not available
<b>Relative Density (water = 1)</b>	4.398
<b>Solubility</b>	Insoluble in water; Moderately soluble in acids (e.g. acetic acid).
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	300 °C
<b>Viscosity</b>	Not available (kinematic)
<b>Other Information</b>	
<b>Physical State</b>	Solid
<b>Molecular Formula</b>	$3\text{Zn}(\text{OH})_2 \cdot 2\text{ZnCO}_3$
<b>Molecular Weight</b>	549
<b>Bulk Density</b>	Not available
<b>Surface Tension</b>	Not available
<b>Critical Temperature</b>	Not available
<b>Electrical Conductivity</b>	Not available
<b>Vapour Pressure at 50 deg C</b>	Not available
<b>Saturated Vapour Concentration</b>	Not available

## SECTION 10. STABILITY AND REACTIVITY

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

### Conditions to Avoid

None known.

### Incompatible Materials

Acids react giving off heat.

### Hazardous Decomposition Products

Decomposition creates oxides of zinc, which causes "brass chills" or "brass founder auge"; may cause damage to mucous membranes.

## SECTION 11. TOXICOLOGICAL INFORMATION

This product may cause a slight general irritancy and mild effects of acute/chronic exposure.

### **Skin Corrosion/Irritation**

Prolonged exposure may cause irritation.

### **Serious Eye Damage/Irritation**

May cause some irritation and/or redness.

### **STOT (Specific Target Organ Toxicity) - Single Exposure**

#### **Inhalation**

May cause some respiratory irritation.

#### **Ingestion**

May cause nausea and vomiting. Large doses are self-purging.

### **STOT (Specific Target Organ Toxicity) - Repeated Exposure**

No information available.

### **Respiratory and/or Skin Sensitization**

Not a known sensitizer.

### **Carcinogenicity**

Not considered a carcinogen by IARC, NTP and OSHA.

### **Reproductive Toxicity**

#### **Development of Offspring**

Not a known teratogen.

#### **Sexual Function and Fertility**

(Zinc carbonate) animal studies show effects on sexual function and/or fertility. Oral (mice): TDLo 2,800 mg/kg abnormalities (skin and skin appendages).

### **Germ Cell Mutagenicity**

Not a known mutagen.

## SECTION 12. ECOLOGICAL INFORMATION

No ecotoxicity or environmental fate data available. It is good practice to prevent releases into the environment.

## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal Methods**

Dispose in accordance with federal, provincial and local government regulations. Containers should NOT be re-used. Containers should be disposed of in accordance with government guidelines.

## SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations.

**Special Precautions** Please note: No special requirements.

### **Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15. REGULATORY INFORMATION

### **Safety, Health and Environmental Regulations**

#### **Canada**

##### **WHMIS 1988 Classification**

Not a WHMIS controlled product.

##### **Additional Canadian Regulatory Lists**

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

## **SECTION 16. OTHER INFORMATION**

**Phone No.** (306) 634-3411

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